TISHCHENKO, G.N.; ZORKIY, P.M.; FORAY-KOSHITS, M.A.

Electron diffraction study of the crystal structure of nickel and copper inner complex compounds of salicylalimins and its derivatives. Zhur.struk.khim. 2 no.4:434-444, J1-Ag '61.

(MIRA 14:9)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

(Nickel compounds) (Copper compounds)

(Salicylaldehide)

ZORKTY, P.M.; PORAY-KORSHIS, M.A.

Structure of molecular crystals. Part 1: Graphic determination of the maximum density distribution of figures on a plane, Kristallografiia 6 no.5:655-661 S-0 161. (MIRA 14:10)

1. Moskovskiy gosudarstvennyy universitet inemi Lonomosova. (Crystallography)

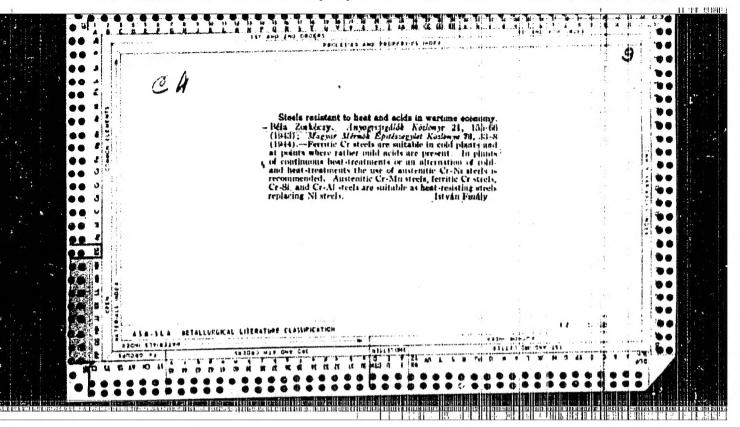
Similarity and differences in the atractures of ergotals of inner-complant coper and sine compounds. Edur. startt. Edur. 2 no. 1:20-25 Ja-F '51.

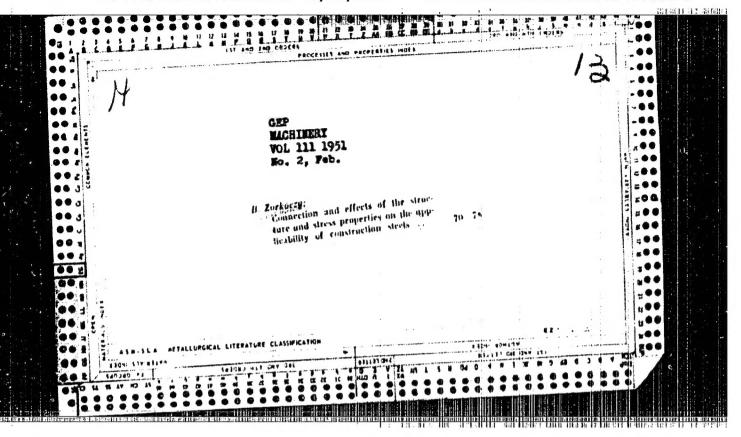
1. Poslavskiy gostderstvency universitet in. T.V. conceases. (Copper compounds) (Time compounds)

ZELENTSOV, V.V.; ZORKIY, P.M.; PORAT-KOSHITS, M.A.

Comparison of the structure of crystals of inner-complex compounds of nickel and cobalt group \$604. Zhur.strukt.kidm. 4 no.3:455-458 My-Je '63. (MIRA 16:6)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
(Nickel compounds) (Cobalt compounds)
(Crystallography)





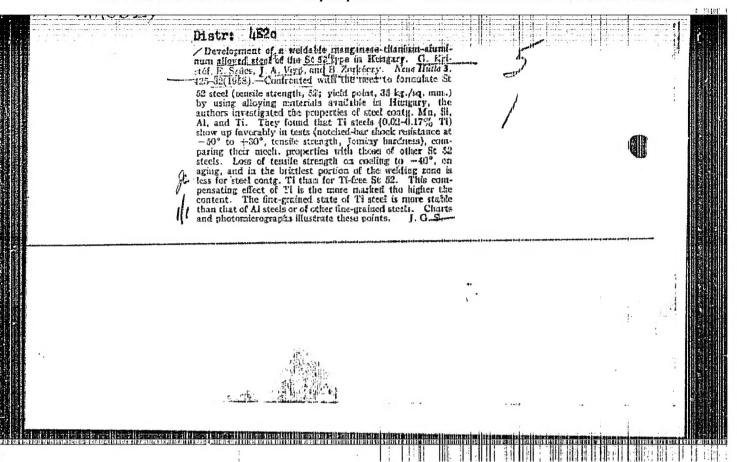
ZORKOCZY, B.; KELANDER, A. - Zvaranie - Vol. 4, no. 2, Feb. 1955.

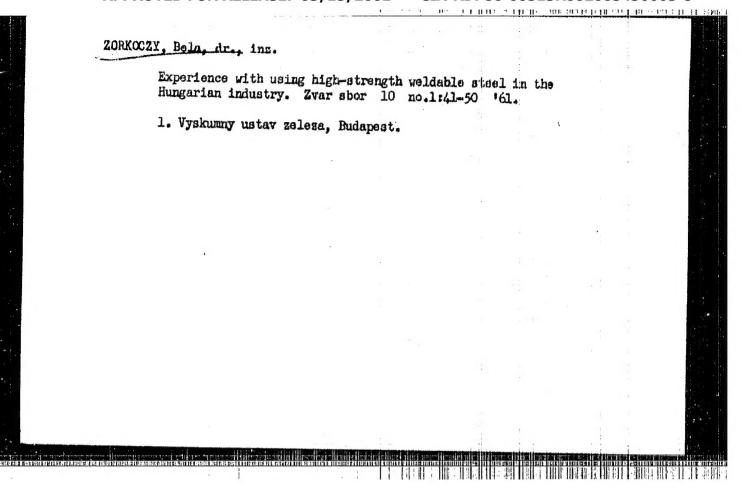
Repairing cast-iron parts by welding. p. 37.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955

Welding lede write chromium steel. Tr. from the Emmyeriam. p. 270.
THE OSKY MORTH. (Slovenska akademic view) Bratinkers. Vol.4, no.
2, 1955.

ENERGE: Past European Accessions list, Vol. 5, no. 9, September 1956





ZORKQCZT, Bela, Dr. Modern welding methods in the manufacturing of machinery for the food industry. Elelm ipar 15 no.5:136-143 My '61. 1. Miskolci Muszaki Egyetem.

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BY THE STEELING SOUTHERN THAN IN SINGLE AND A PROPERTY OF SILVER S

CZECHOSLOVAKIA

BANIKOVA, H.; ANTAL, J.; HALABRINOVA, V.; ZORKOCY, D.; Department of Physiology, Medical College, Comenius University (Fysiologicky tistav LFUK), Bratislava.

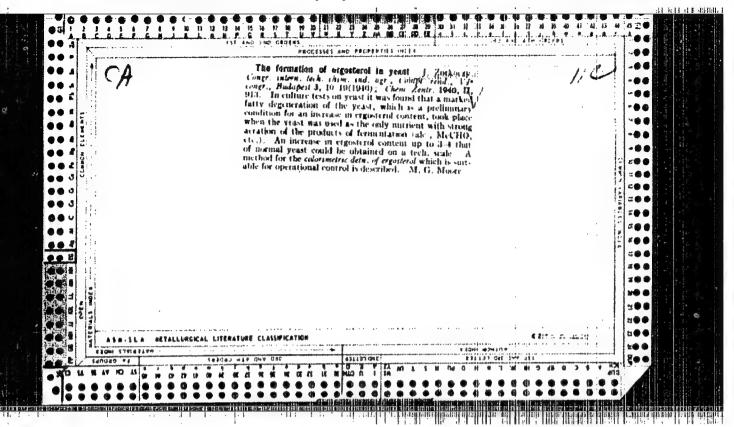
"Effect of Muscular Effort on Renal Function in Dogs."

Prague, Ceskoslovenska Fysiologie, Vol 14, No 5, Oct 1965; p 338.

Abstract: A decrease of renal function during 30 minutes running by 8 dogs in 25 experiments was found in all of the 7 parameters measured, including 53% decrease in diuresis. This was found to be due to reduced glomerular filtration rate. Changes reverted to normal within 30 minutes after exercise. 4 Western references. Paper presented at the 15th Physiology Days, Olomouc, 27 May 65.

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SOV/137-58-12-24426

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 68 (USSR)

AUTHOR: Zorkov, A. F.

TITLE: Making Balls on Rolling Mills (Izgotovleniye sharov na prokatnykh

stanakh)

PERIODICAL: Prom.-ekon. byul. Sov. nar. kh. va Sverdl. ekon. adm. r-na,

1958, Nr 4, pp 43-44

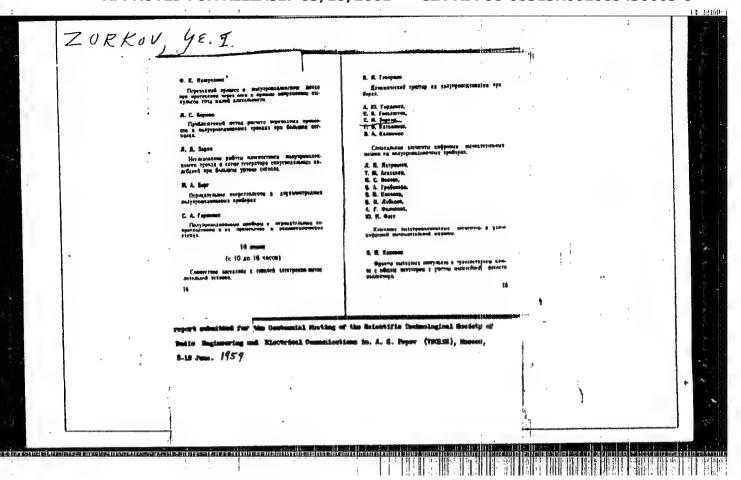
ABSTRACT: Special automatic rolling mills are used at the Novo-Kramatorskiy

Machinery Plant to make steel balls 30 to 125 mm in diameter. The "billets" are hot-rolled steel rounds 2-6 m in length and 2-4 mm less in diameter than the resulting balls. Below-standard steel may be used. The production of the mills in making balls of 30-40, 40-80, and 80-125 mm diam is, respectively, 120, 60-120, and 40-60

pieces per min.

V.D.

Card 1/1

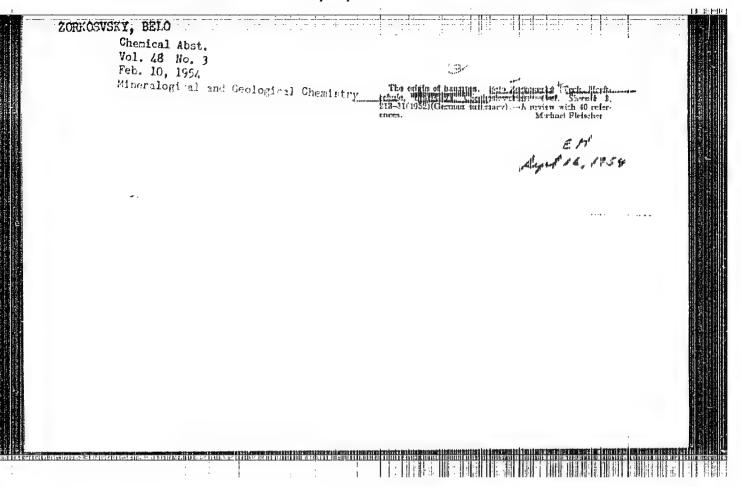


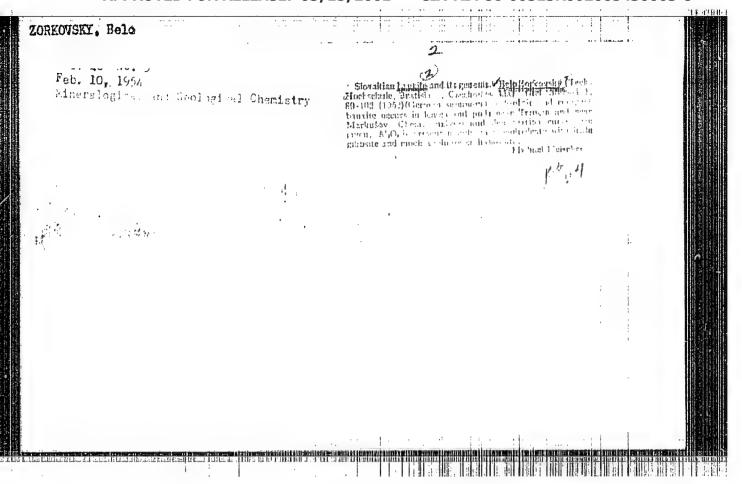
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SHOYKHET, M.I.; 20HOV, V.P.

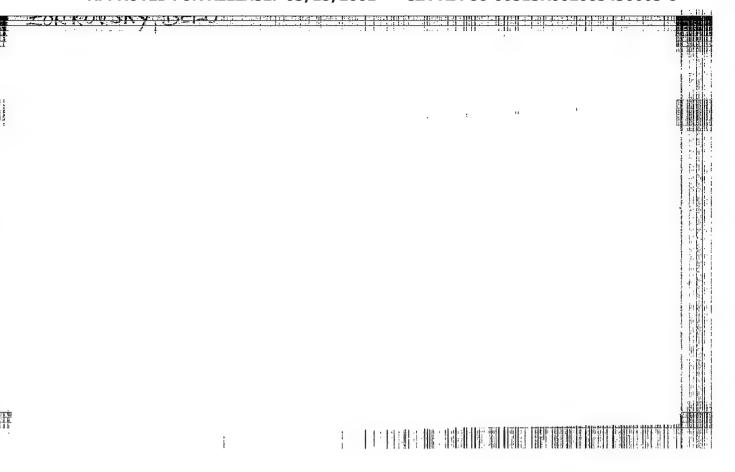
Determining the content of alcohol and of extract in alcohol containing juices. Spirt.prom. 25 no.8:26-27 '59. (MRA 13:3)

(Fruit juices) (Alcohol)









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ZORKOVSKY, B.

ZORKOVSKY, B. A few notes on the question of finds of magnesite near Pliesovce. p.134.

No. 3, 1955, GEOLOGICKE PRACE; ZPRAVY, BRATISLAVA, CHECHOSLOVAKIA.

SO: Monthly List of East Buropean Accessions, (EEAL), LC, Vol. 5, No. 10, Oct. 1956.

ZORKOVSKY, B.

New classification of the deposits of mimeral raw materals. p. 148.

Slovenska akademia vied. GEORLOLOCKY SEORNIK, CZECHOSLOVAKIA

Vol. 6, No. 1/2. 1955.

SOURCE: Bast European Acces ions List (BEAL) Library of Congress. Vol. 5, No. 1, January, 1956.

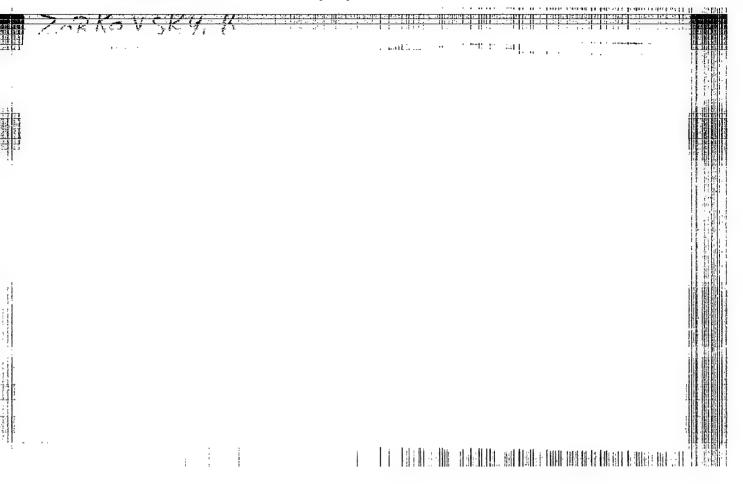
Problem of the origin of magnesite. p. 132.

Slovenska akademia vied. SEORLOLOCKI SEORNIK. CZECHOSLOVAKIA

Vol. 6, No. 1/2, 1955.

SOURCE: East European Accessions List (ESAL) Library

of Gongress. Vol. 5, No. 1, January, 1956.



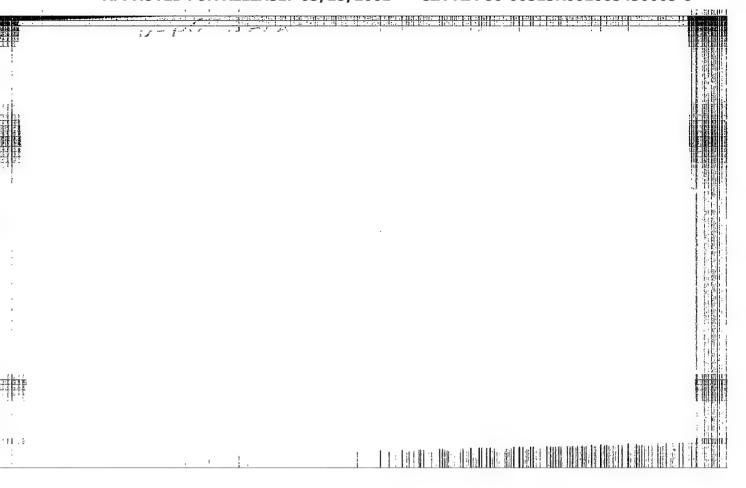
र रहार के एक विकास के देश में एक पूर्व के प्राप्त कर के कि एक के कि एक कि एक कि एक कि

ZORKOVSKY, B.

Short outline of the geologic structure of Slovakia and the occurrence of useful minerals. p. 109.

RUDY, Praha, Vol. 3, no. 4, Apr. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.



BELL, ZORKLUZAY

CZECHOSLOVAKIA/Cosmochemistry - Geochemistry. Hydrochemistry.

D.

Abs Jour

: Ref Zhur - Khimiya, No 9, 1957, 30382

Author:

Zorkovsky Belo

Inst Title

Chemical Nature of Garnet from Garnetized Andesite North-

West of the Village Vel'ky Saris (Eastern Slovakia)

Orig Pub

: Geol. sbor. SAV, 1956, 7, No 3-4, 321-331

Abst

A study of andesite with large porphyric xenoblasts of amphiboles, pyroxenes, plagioclases of andesine-labradorite series and garnet phenocrysts (of almandine): proncipal body consists of microcrystals of more acidic plagioclases, ore minerals, chlorite and calcite. Chemical composition of andesite (in %): SiO₂ 58.71, TiO₂ 0.61, Al₂O₃ 16.82, Fe₂O₃ 3.02, FeO 3.13, MnO 0.15, MgO 2.59, CaO 6.78, Na₂O 3.15, K₂O 1.81, P₂O₅ 0.13, H₂O 0.62, other extraneous admixtures 2.23, total 99.75.

Chemical composition of almandine (in %):

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CZECHOSLOVAKIA/Cosmochemistry - Geochemistry. Hydrochemistry.

D.

Abs Jour

: Ref Zhur - Khimiya, No 9, 1957, 30382

 $$10_2$ 38.20, 110_2 0.15, 120_3 21.63, $${\rm Fe}_2{\rm O}_3$ 3.32, ${\rm FeO}_3$ 3.$

23.51, MnO 2.15, CaO 4.62, MgO 3.90, other extraneous admixtures 1.72, total 99.20. Formation of garnet is

due to processes of autometamorphism.

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ZORKOVSKY, Belo

SURNAME, Given Names

Country: Czechoslovakia

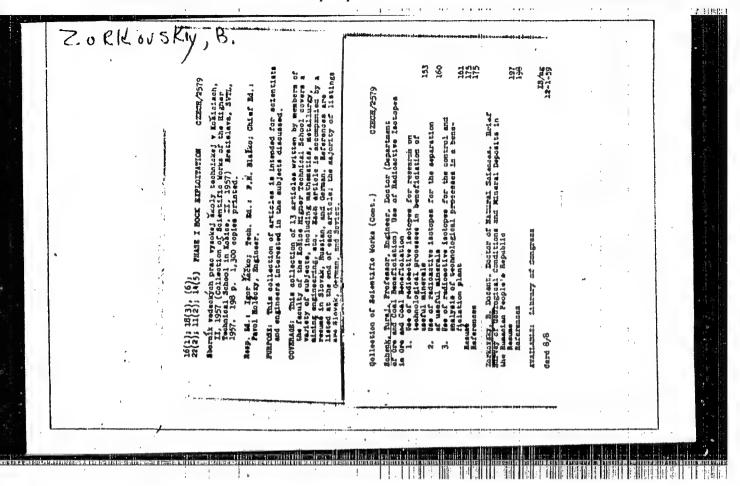
Academic Degrees: Dr, Professor

Chair of Geology and Moneralogy, Faculty of Mining, Institute of

Technology (Katedra geologie a mineralogie Banskej fakulty Vyso-kej skoly technickej), Kosice Affiliation:

Bratislava, Nasa Veda, Vol VIII, No 8, 1961, pp 486-492. Source:

"East Slovakian Mineral and Healing Springs." Data:



ZORKOVSKY B.

TECHNOLOGY

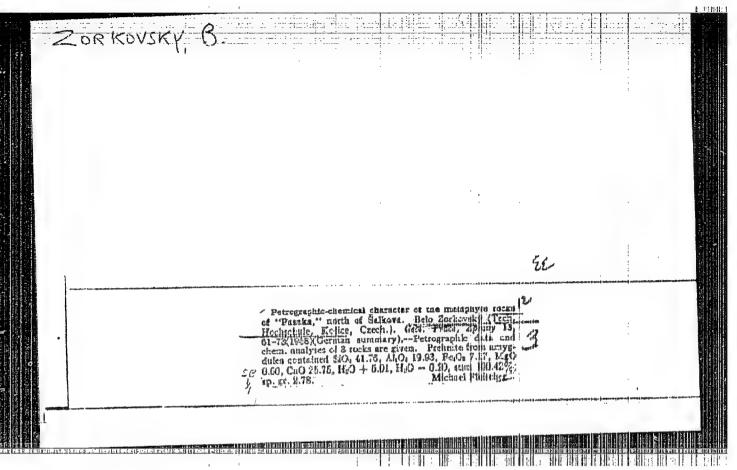
periodicals: SEORNIK VEDECHICH PRAC Vol. 2, 1957

ZORKOVSKY, B. A short survey of geologic conditions and mineral resources of the Rumanian People's Republic. p.179.

Monthly List of East European Accession (EEAI) 12 Vol.8, no.5 East 1959, Unclass.

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ZCRKOVSKY, B.

A brief survey of the geologic conditions and the occurrence of ore deposits in the Rumanian People's Republic. p.163. (Rudy, Vol. 5, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

ZORKOVSKY, B.

GEOGRAPHY & GEOLOGY

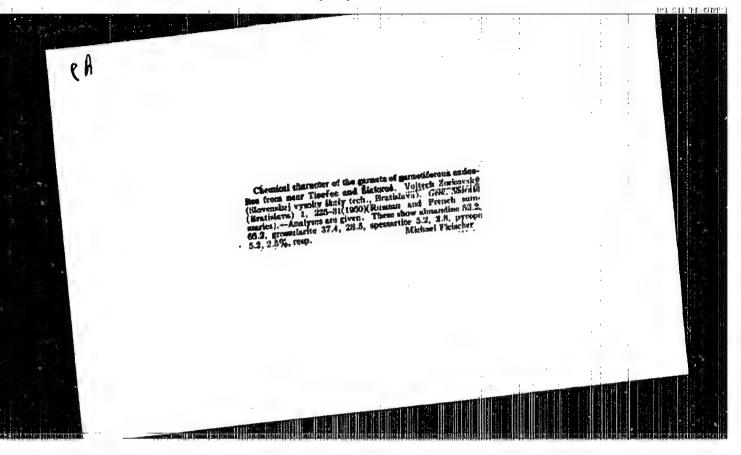
Periodicals: GEOLOGICKE PRACE; ZPRAVY. No. 11, 1958

ZORKOVSKY, B. Report on petrographic-chemical studies of the melaphyre rocks rising southeast of the fillage of Modrova in the Inovec massif of the Vah River area. p. 17.

Monthly List of East European Accessions (EEAI) IC, VOL. 8, No. 5, May 1959, Unclass.

ZCRKOVSKY, Bohumil, prof., dr. (Kosice)

Saxon Erzgebirge, the ore base of the German Dumocratic Republic. Rudy 10 no.2:37-43 F '62.

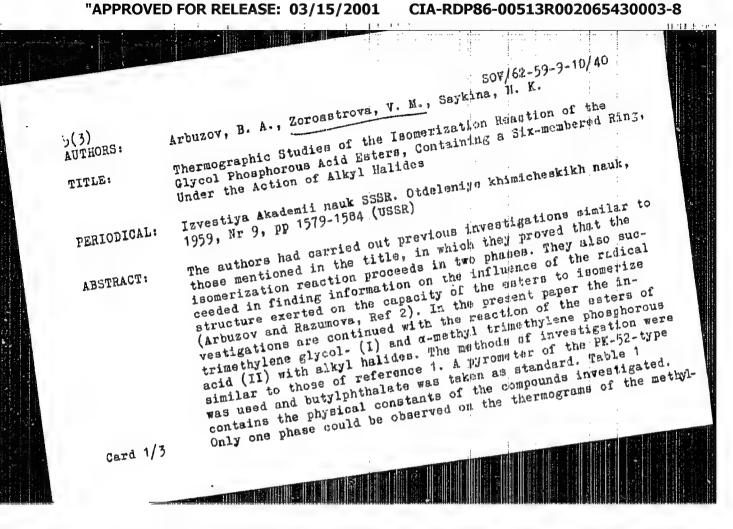


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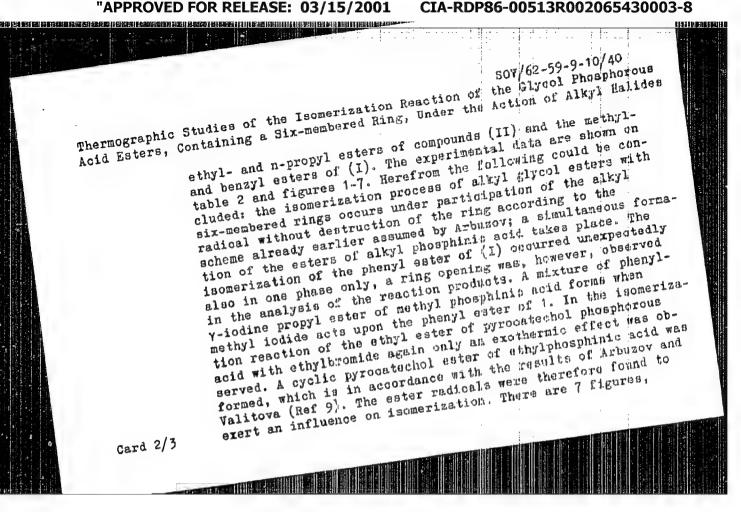
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AUTHOR: Zornik, D.: Lušnik, K.; Pjasecká, G.; Stasevič, P;
and Storčienko, P.

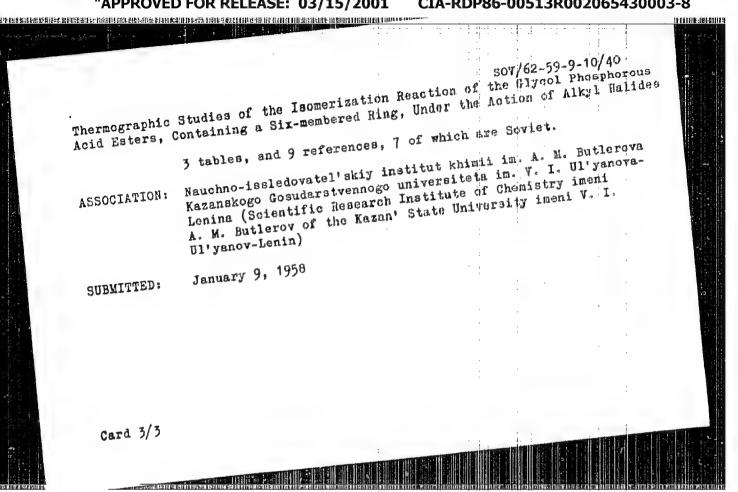
The Parachutist's Physical Training (taken from a book by the above listed authors: "Theory and Pracbook by the above listed authors: "Theory and Pracbook by the above listed authors: "Theory and Pracbook by the above listed authors: Theory and Pracbook by the above listed auth

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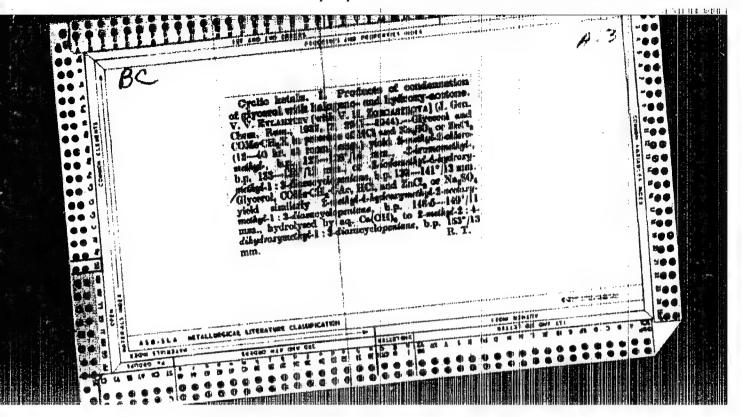


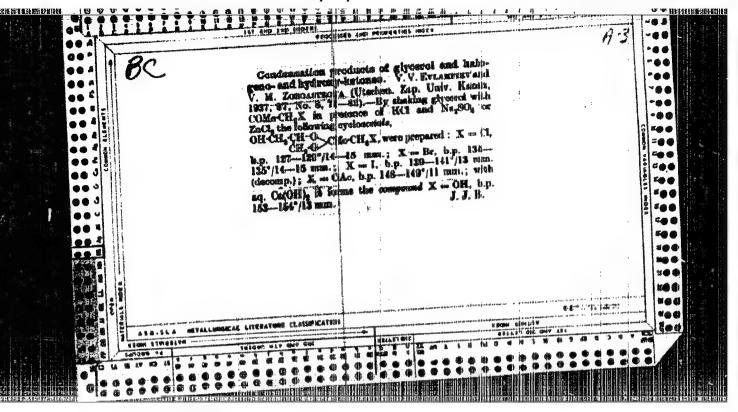
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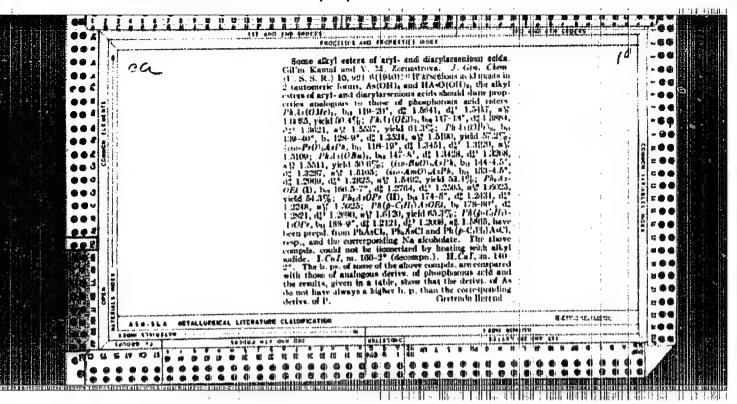


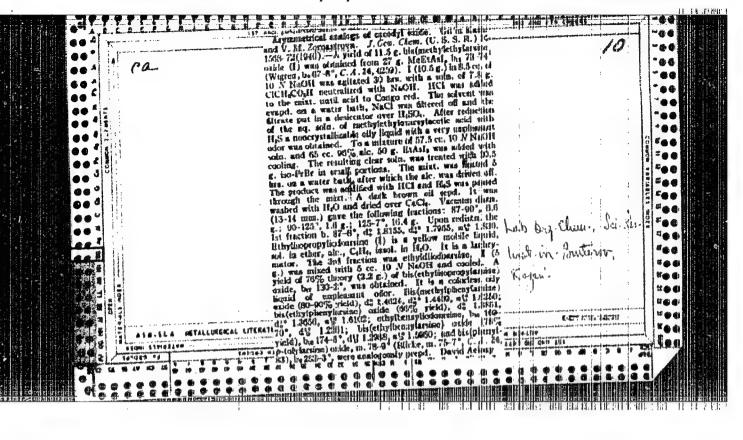


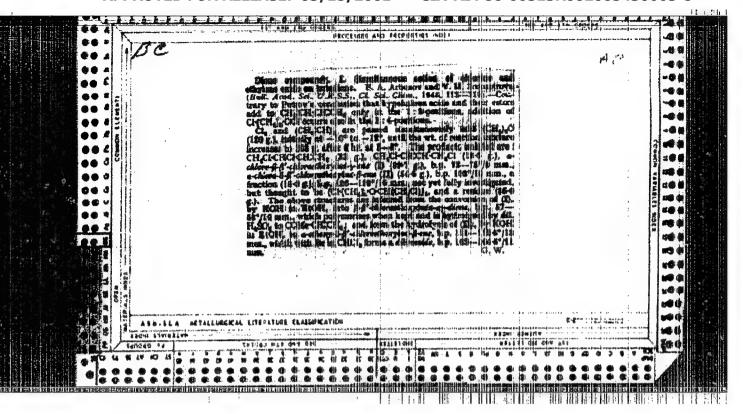
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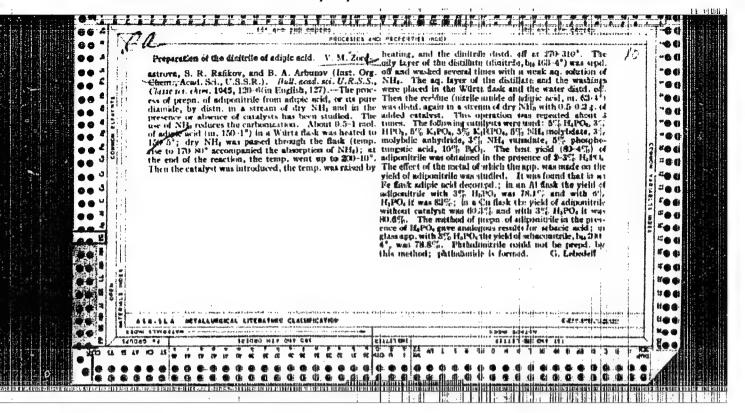


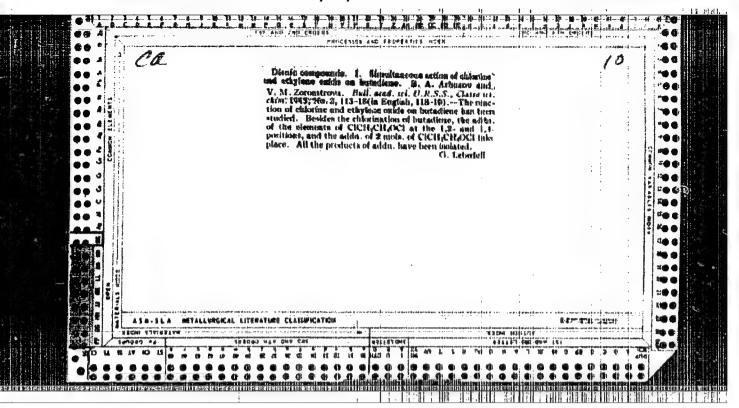


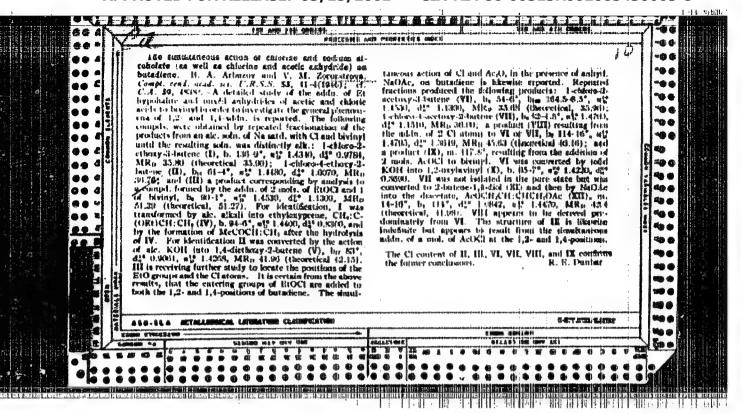


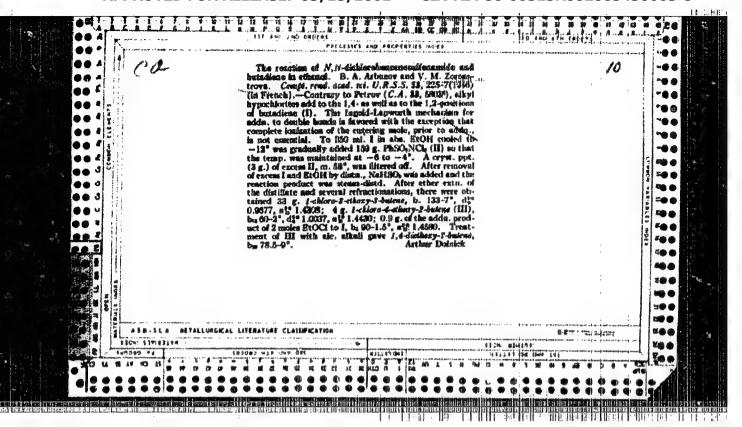


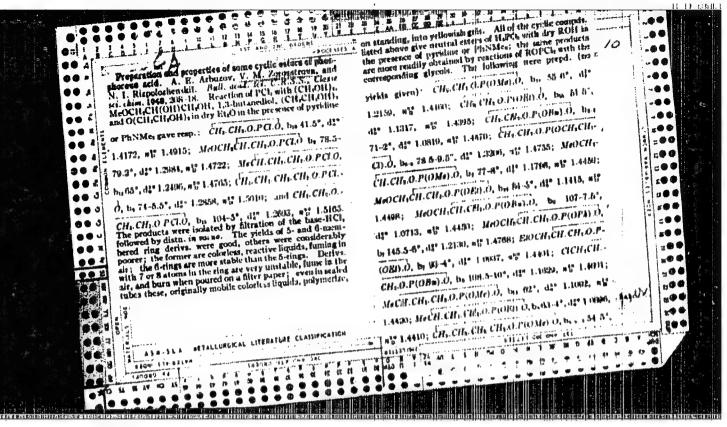


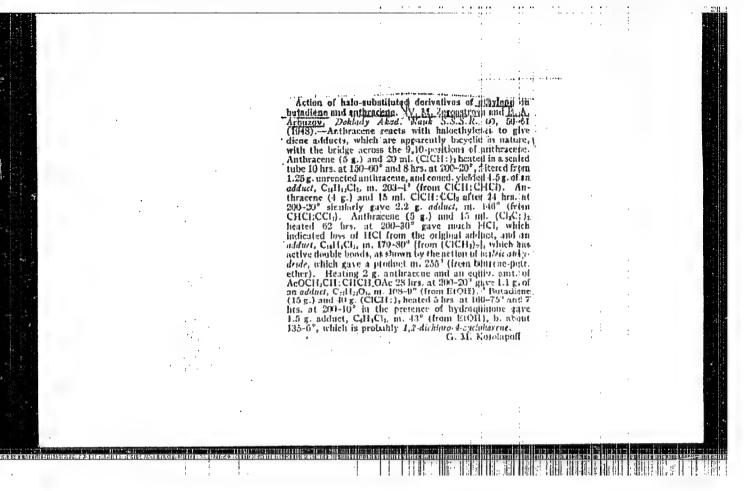








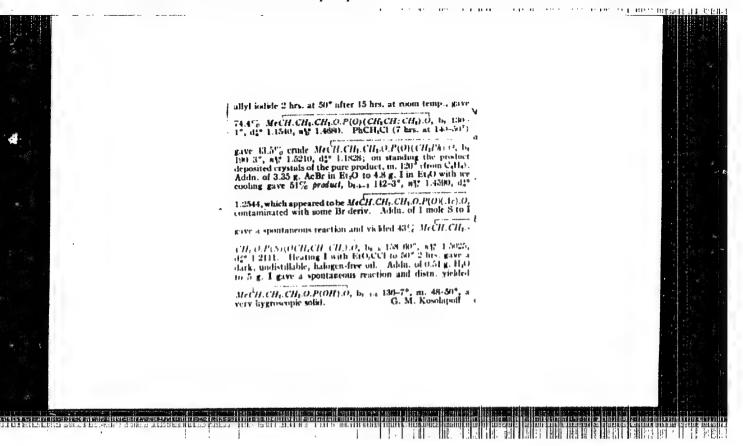




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ZOROASTRUVA, V. H.	USER/Chemistry - Organo-Phosphorus May/Jun ! The Chloride of 1,2-dithiolethanephosphorous The Chloride of 1,2-dithiolethanephosphorous The Let Derivatives, "A. Ye. Arbucov, Y. M. Acrosstrova, Sci Res Inst of Chom imeni A. M. Corosstrova, Sci Res Inst of Chom imeni A. M. Corosstrova, Sci Res Inst of Chom imeni A. M. Corosstrova, Sci Res Inst of Chom imeni A. M. Corosstrova, Kazan State U imeni V. I. Ulyanov. Tenin The cyclic chloride of dithiolethanephosphoro- prid was synthesized by the action of PC13 of Serial was synthesized by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of sic on the synthesized both by the action of this said was action of the synthesized both by the action of this said was action of the synthesized both by the action of this said was action of the synthesized by the action of sic on the synthesized both by the action of this said was action of this said was action of the synthesized by the action of this said was action of the synthesized by the action of this said was action of the synthesized by the action of this said was action of the synthesized by the action of the synthesized by the said was action of the synthesized by the sy
220 <u>19</u>	Phosphorus May/Jun 52 Infolethanephosphorous Atid Ye. Arbuzov, Y. M. It of Chem imeni A. M. Imeni V. I. Ulyanov dithiolethanephosphorous the action of POl3 on rs of this acid ware action of alc on the action f pyridine, and by the action hloride on dithiolethane. The laslides (methyl lodide, The structure of these re- t established.

ARBUZOV, B.A.; SAYKINA, M.K.; ZOROASTROVA, V.M.

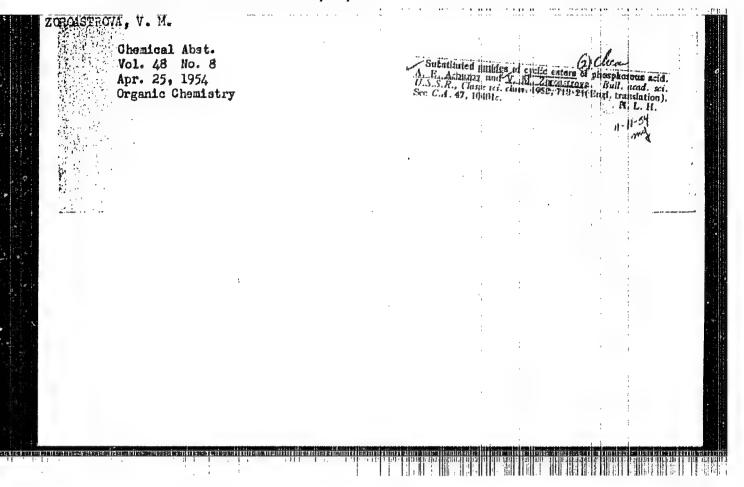
Thermographic studies of the interaction between esters of ethyleneglycolphosphorous acid and alkyl halides. Izv. AN SSSR. Otd. khim. nauk no.9:1046-1052 3 '57. (MIRA 10:12)

1. Nauchno-issledovatel'skiy khimicheskiy institut im. A.M. Butlerova pri Kazanskom gosudarstvennom universitete im. V.I. Ul'yanova-Lenina.

(Esters) (Phosphorous acid) (Halides)

- 1. ARBUZOV, A. Ye.; ZORASTROVA, V. M.
- 2. USSR (600)
- 4. Esters
- 7. Substituted amides of cyclic esters of phosphorous acid, 1zv. AN SSSR. Otd. khim. nauk, No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.



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ARBUZOV, B. A.; ZOROASTROVA, V. M.; SACITOVA, R. Mi.

manda of the Comment of the State of the Living

Esters of phosphoric and phosphorothicic acids containing heterocyclic radicals. Report No. 6: Interaction of phosphoryl and thiophosphoryl chlorides with benzimidazole and morpholine. Izv AN SSSR Ser Khim no. 4:661-669 Ap 164.

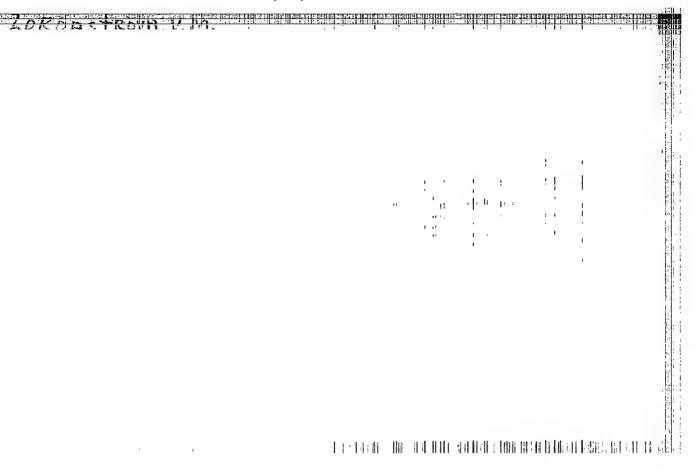
(MIRA 17:5)

1. Nauchno-issledovateliskiy khimicheskiy institut im.
A. M. Butlerova Kazanskogo gosudarstvennogo universiteta.

ARBUZOV, B. A.; ZOROASTROVA, V. M.; IERAGIMOVA, N. D.

Esters of phosphoric acid containing a cyano group. Izv.
AN SSSR Ser Khim no. 4:656-661 Ap '64. (MIRA 17:5)

1. Ne chno-issledovateľskiy khimicheskiy institut im. A. M. Butlerova Kazanskogo gosudarstvennogo universiteta.



- 1. ARBUZOV, A. YE., ZORASTROVA, V. M.
- 2. USSR (600)
- 4. Phosphorous Acid
- 7. Esters of gylcol phosphorous acids. Part 1. Compounds with 5-, 7-, and 8-membered rings. Izv. AN SSSR. Otd. khim. nauk, No. 5, 1952

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ARBUZOV. A.Ye.; ZOHOASTROVA, V.M.

Esters of glycol-phosphorous acids. II. Compounds with 6-member ring.

Izvest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk *52, 779-88. (MIRA 5:11)

(CA 47 no.19:9901 *53)

ARBUZOV, A.Ye.; ZOROASTROVA, V.M.

Complex compounds of esters of phosphorus acid. II. Complex compounds with calts of bivalent platimum. Izvest. Akad. Neuk S.S.S.R., Otdel Khim. Nauk '52, 818-25.
(CA 47 no.1919899 '53)

ARBUZOV, A.Ye.; ZOROASTROVA, V.M.

Complex compounds of estere of phosphorus acid. III. Complex compounds with mercury salts. Izvest. Akad. Nauk S.S.S.R., Otdel Khim. Hauk '52, 826-30.

(CA 47 no.19:9900 '53)

(CA 47 no.19:9900 '53)

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Zóroastrov,	V. H.		, i	in constitution of the constitution of	1 11
		Filver halide, producing complex compds like AGX-P(OR)3. CuX-P(OR)3 and similar complex bere found to have a triple wol wt. On the not detd. The complex compds like CuX-2P(OR)3 from the reaction of phosphorous acid esters the action of triphenylphosphite on AuCl-PC1 prought forth the complex compd, (C6H50)3P-Ai	"Dor Ak Hauk SSER" Vol LYXXIV, No 3, pp 50 A. Te. Arbuzov indicated that the reaction Plate esters of phosphorous acid with cum Franked in complex compds like Cuxp(or) Cux2P(or)3. These same esters also react	Compounds Compounds Compounds Complete Phosphorous Acid Esters With Copper, Silver and Gold Salts, Acid Esters With Copper, Silver and Gold Salts, Cham Inst imeni A. M. Butlerov, Kazan State U 1 V. I. Lenin	
	225Tl	like plex the (OR)3 resusters	3, pp 503-506 reaction of com- ith currous salis X-P(OR)3 and so reacted with	21 May 52 Phosphorous Gold Salts," Yea, Sci Res to State U imeni	



ZURUHSTKEVE U.M.

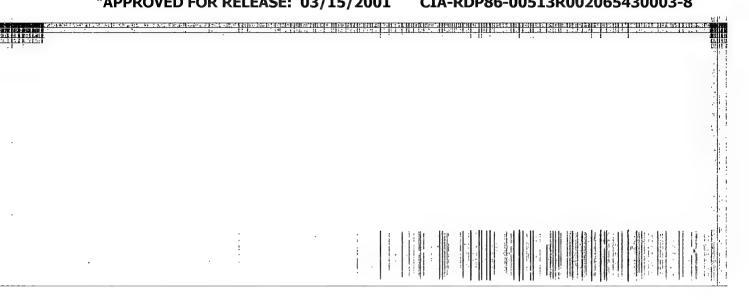
ARBUZOV, B.A.; ZOROASTROVA, V.M.

Synthesis of phosphinic acid esters containing heterocyclic radicals Report no.5. Phosphinic acid esters with a dihydrocounarin radical. Izv.AN SSSR.Otd.khin.nauk nob:681-688 J1-Ag 155. (MIRA 9:1)

्रा । । सर्वे हा पुरुष । १ व्यक्त व्यवस्थान । । । । । ।

1. Khimicheskiy nauchme-issledovatel'skiy institut imemi A.M. Butlereva Kazanskego umiversiteta imemi Ul'yaneva-Lemina. (Phosphimic acid) (Hydreceumaria)

Translation in/M



L 31359-66 EMP(J')/EMT(1)/EMT(m) RM/RO SOURCE CODE: UR/0062/66/000/002/0254/0257 ACC NRI AP6021099 40 AUTHOR: Arbuzov. B. A.: Zoroastroya. V. M. В ORG: Scientific Research Chemical Institute im. A. M. Butleroy, Kazan' State University im. V. I. Ul'yanov-Lenin (Nauchno-issledovatel'skiy khimicheskiy institut Kazanskogo gosudarstvennogo universiteta) TITLE: Synthesis of esters of phosphinic acids containing heterocyclic radicals. Report 8. 2-methyl-3-(omega-phosphonemethyl)-quinoxaline esters with an alkyl group SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 2, 1966, 254-257 TOPIC TAGS: chemical synthesis, esterification, phosphinic acid, alkyl radical, fungicide, heterocyclic base compound ABSTRACT: A description is given of phosphinic esters of 2-nethyl-3-(ωiphosphonemethyl)quinoxaline. The compounds were prepared by the Arbuzov reaction of 2-methyl-3-(omega-chloromethyl)quinoxaline) with trialkylphosphites. The authors did not succeed in obtaining the dimethyl ester of 2-methyl-3-(omega-phosponemethyl)quinoxaline, nor the 2-methyl-3-(omega-phosphonemethyl) oxide of quinoxaline, despite frequent attempts. According to preliminary data, the compounds containing quinoxaline radicals described in the report show activity toward certain species of fungi. At present the fungicidal 6 properties of esters of 2-methyl-3-(onega-phosphonemethyl)quinoxaline are under study. [JPRS] SUB CODE: 07, 06 / SUBM DATE: 05Aug63 / ORIG REF: 001 / OTH REF: 002 542.91 + 661.718.1 + 547.7 UDC:

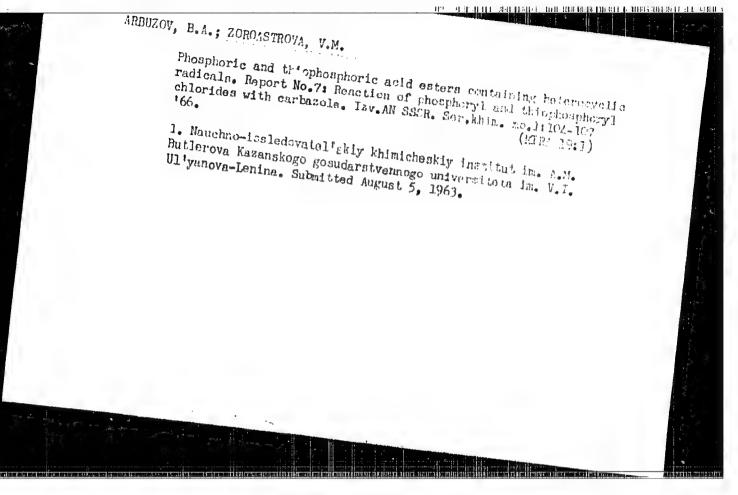
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AUTHOR: Arbuzov, B. A.; Zoronstrova, V. 11.
ORG: Scientific Research Chemical Institute im A.M. Butkerov, Kazan' State University im. B. I. Ul'yanov-Lonin (Khimicheskiy institut Kazan'skogo
TITLE: Esters of phosphoric and thiophosphoric acids containing heterocyclic radicals. Report 7. Reaction of phosphoric and thiophosphoric acid chlorides
SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 1, 1966, 104-107 TOPIC TAGS: organic phosphorus compound, heterocyclic base compound, ester,
ARSTRACT: In an effort to synthesize esters of N-phospone-carbazol, the authors used the potassium salt of carbazol and acetonitrile as a solvent. To a suspension of carbazol in anhydrous acetonitrile the dialkylphosphoric acid chloride was trate, the solvent was distilled under vacuum. The residue was purified by recrystallization from petroleum other (b. p. extent on the method used to prepare the carbazol salt. The
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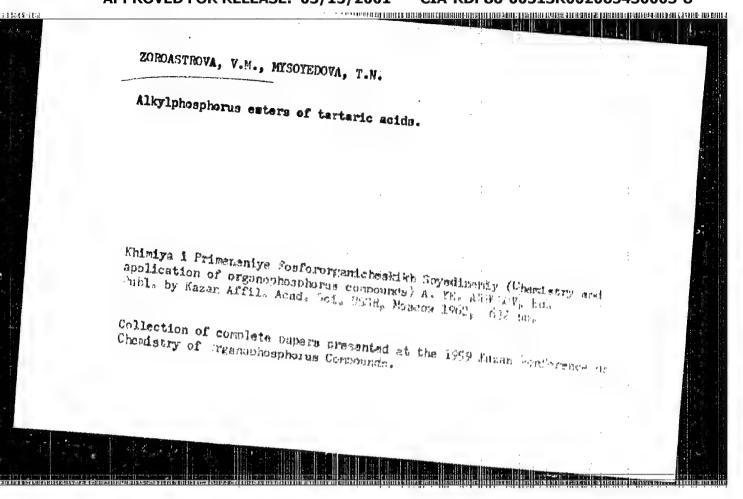
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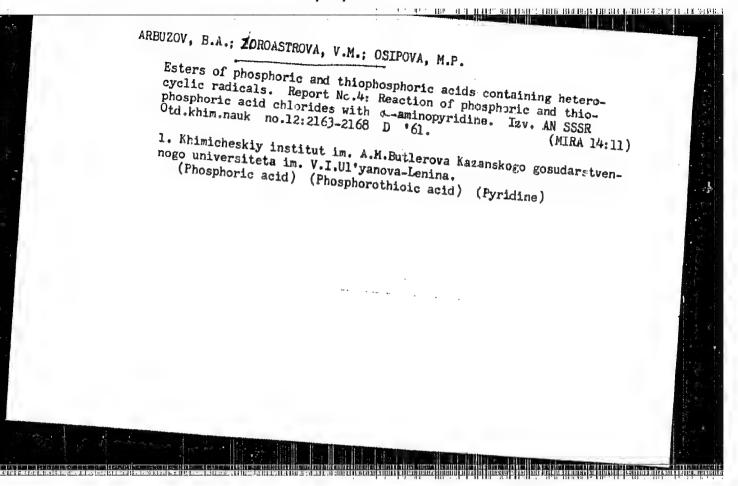
potassium salt of carbazol obtained by the Sch method evidently contained excess alkali, and reactions carried out with this salt did not give positive results. On the other hand, the potassium salt of carbazol prepared by fusing equinclar amounts of carbazol and potassium hydroxide did not contain excess alkali. The compounds synthesized were: N-dlethylphosphone-carbazol (m. p. 76°) and N-dlisopropylphosphonecarbazol. (m. p. 69-71°). The action of pioric acid in alcoholic solution was used to obtain the corresponding nitrates of these compounds. The piorate of the former compound had a m. p. of 68-90° and the piorate of the latter -- m. p. 121-122.5°.

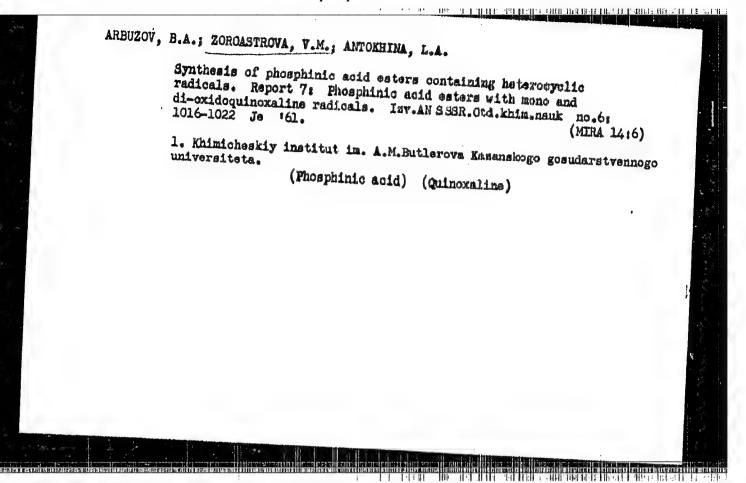
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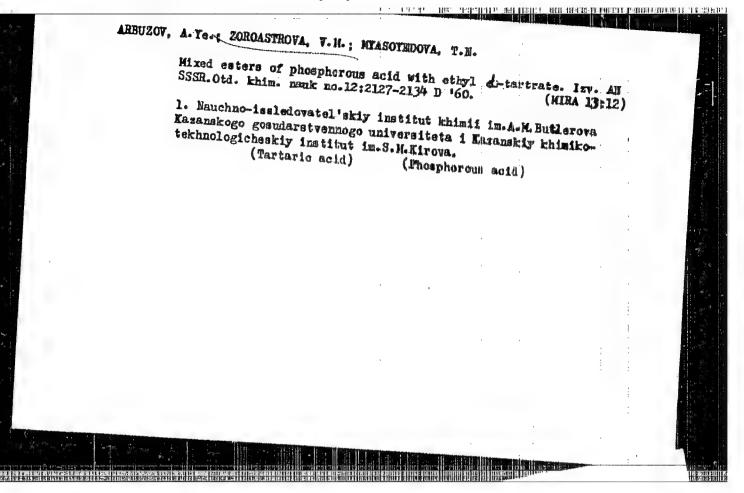
SUB CODE: 07 / SUEM DATE: 05 Aug 63 / ORIG REF: 003 / OTH REF: 001

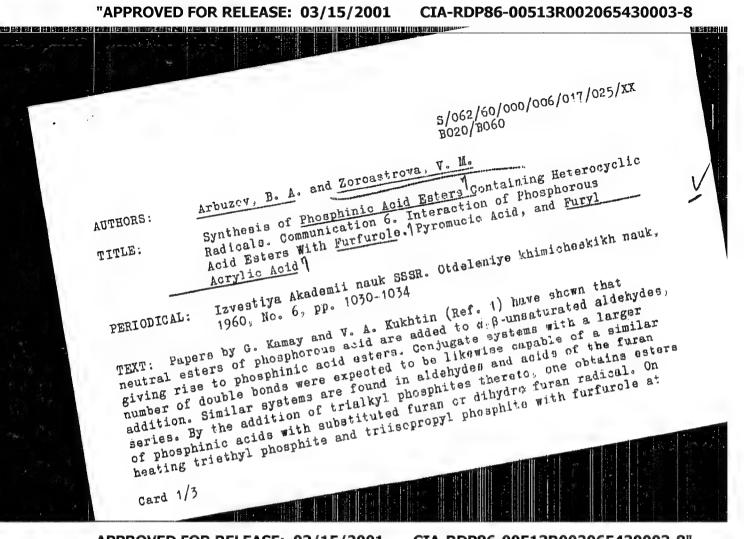












CIA-RDP86-00513R002065430003-8" APPROVED FOR RELEASE: 03/15/2001

Synthesis of Phosphinic Acid Esters Containing Heterocyclic Radicals. Communication 6. Interaction of Phosphorous Acid Esters With Furfurole, Pyromucic Acid, and Furyl Acrylic Acid

S/062/60/000/006/017/025/XX B020/B060

1600 the phosphite was oxidized to phosphate, namely by the oxygen of the aldehyde group. Small amounts of difuryl ethane were separated from the reaction products for a melting point of 100 - 1010. Trialkyl phosphite thus behaves as an oxygen acceptor and takes this oxygen from the aldehyde group. The interaction of triethyl phosphite with benzaldehyde under more rigorous conditions was experimentally observed. Also in this case, apart from the addition product of triethyl phosphate to the aldehyde group, the reaction described by V. S. Abramov (Ref. 2) yielded trialkyl phosphate and small amounts of stilbene for a melting point of 124 - 1250. The oxygen removal by means of phosphite, described in the article under consideration, has an analogy in the removal of sulfur from mercaptans and disulfides (Refs. 3, 4). On heating triethyl phosphite or triisopropyl phosphite with pyromucic acid at 150 - 1600, ethyl- or isopropyl esters of pyromucic acid were separated from the reaction products. The course of the reaction between triethyl phosphite and furyl

Card 2/3

ARBUZOV, B.A.: ZOROASTROVA, V.H.

Synthesis of esters of phosphonic acids containing heterocyclic radicals. Report No.6: Heactions of esters of phosphorous acid with furfurole and pyromucic and furylacrylic acids. Isv.AN SSSR.Otd.khim.nauk no.6:1030-1034 Jl '60. (MIRA 13:7)

1. Mauchno-issledovatel'skiy khimicheskiy institut imeni A.M.Butlerova Kazanskogo universiteta. (Furaldehyde) (Furoic acid) (Furanacrylic acid) (Phosphorous acid)

5 (3) AUTHORS:

Arbuzov, B. A., Zoroastrova, V. M. SOV/62-50-6 44/74

TITLE:

The Esters of the Phosphoric and Thiophosphoric Acid, Which Contain Heterocyclic Radicals (Efiry fosfornoy i tiofosfornoy kislot, soderzhashchiye geterotsiklicheskiye radikaly).

Communication 2. Alkylation of Some Heterocyclic Compounds by Means of the Derivatives of the Phosphoric and Phosphorous Acid (Soobshcheniye 2. Alkilirovaniye nekotorykh geterotsikkislot)

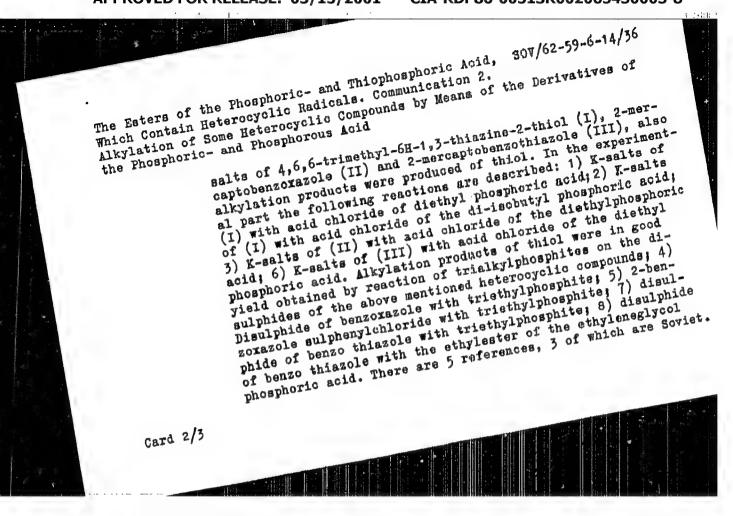
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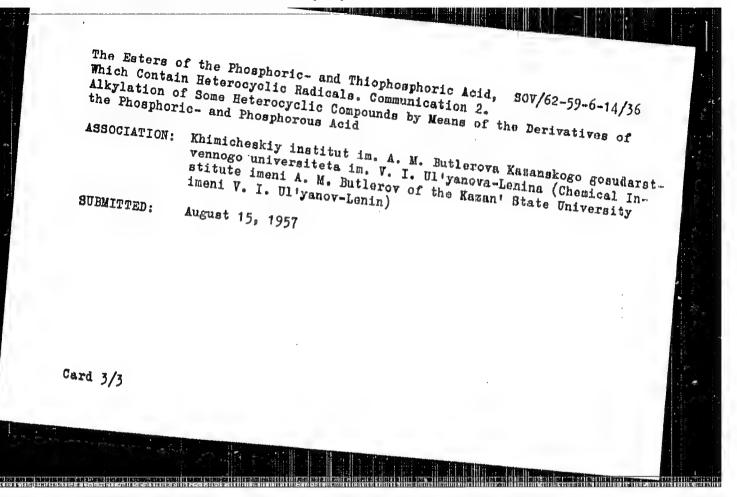
Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 6, pp 1037 - 1040 (USSR)

ABSTRACT:

In a previous paper (Ref 1) the authors described a series of esters of phosphoric and thiophosphoric acid with pyrimidine and imidomethyluracil radicals. The compounds obtained proved to be biologically highly active. The present paper is a continuation of the first one. The authors wanted to obtain thiacine, benzoxazole, and benzothiazole), and to investigate fluence of dialkylphosphoric acid chloride upon the potassium

Card 1/3





"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065430003-8

नाम । जाता विकास के अपने के प्रतिस्था के अपने के अपने

ARBUZOV. B.A.; ZOROASTROVA, V.M.

Esters of phospheric and thiophospheric acids containing heterocyclic radicals. Report No.1: Compounds containing pyrimidine and imidomethyluracil radicals. Izv. AN SSSR. Otd. khim.mauk no.11:1331-1339 N '58.

(MIRA 11:12)

1. Khimicheskiy institut imeni A.M. Butlerova Kazanskogo gesudarstvennoge universiteta imeni V.I. Ul'yanova-Lenina.

(Primidine) (Uracil) (Phosphoric acid)

5(3) AUTHORS:

Arbuzov, B. A., Zoroastrova, V. M.

SOV/62-58-11-9/26

TITLE:

Esters of Phosphoric and Thiophosphoric Acids Containing Heterocyclic Radicals (Efiry fosfornoy i tiofosfornoy kislot, soderzhashchiye geterotsiklicheskiye radikaly)

Communication I. Compounds Containing Pyrimidine and Imidomethyl Uracil Radicals (Soobshcheniye 1. Soyedineniya s pirimidinovym i imidometiluratsilovym radikalami)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1958, Nr 11, pp 1331-1339 (USSR)

ABSTRACT:

In the present paper the authors synthesized a number of esters of the phosphoric and thiophosphoric acids with pyrimidine and imidouracil radicals. The physical properties of the obtained products are given (Table 1). Compounds Nr 1 and 2 are high-boiling, viscous, oily liquids easily soluble in the ordinary organic solvents and difficultly soluble in water. Compound Nr 2 was described by Shvetsova-Shilovskaya, Mel'nikov, and Grapov (Ref 2). Compound Nr 4 was obtained in liquid as well as also in crystalline state. The other compounds containing the pyrimidine radical, are low-melting solids. Products Nr 3, 4, 5 were obtained in good yields from

Card 1/3

Esters of Phosphoric and Thiophosphoric Acids Containing Heterocyclic Radicals. Communication I. Compounds Containing Pyrimidine and Imidomethyl Uracil Radicals

507/62-58-11-9/26

the Na-salt of 2-phenyl-4-mothyl-6-exypyrimidine. Under the selected conditions no compound with the imidouracil radical could be obtained from Na-salt. They were produced by the interaction of Ag-salt and the acid chloride of dialkyl phosphoric acid in dry toluene or xylol in a yield of from 51.6 to .57.8 %. These compounds are low-melting crystalline solids. They are easily soluble in organic solvents, less easily soluble in water. It is a characteristic feature of all compounds that in compounds with an ethyl radical solubility in water is better than in compounds with normal and isobutyl radicals. The authors tried to obtain n-butyl ester (Nr 7) according to the method described (Ref 2). On this occasion, however, a product was separated which according to its analysis corresponded to the acid imidomethyl uracil butyl ester. Individual synthesized esters were saponified. In the course of saponification with hydrochloric acid (1:1) usually initial pyrimidines or imidemethyl uracil could be separated. Some of the synthesized compounds were examined by M. A.

Card 2/3

Esters of Phosphoric and Thiophosphoric Acids Containing Heterocyclic Radicals. Communication I. Compounds Containing Pyrimidine and Imidomethyl Uracil Radicals

SOV/62-58-11-9/26

Kudrina at the Kazanskiy filial Akademii mauk SSSR (Kazan' Branch of the Academy of Sciences USSR) with respect to their insecticide properties on Calandra granaria L. and to toxic properties on mice. The results are shown (Table 2). There are 2 tables and 4 references, 1 of which is Soviet.

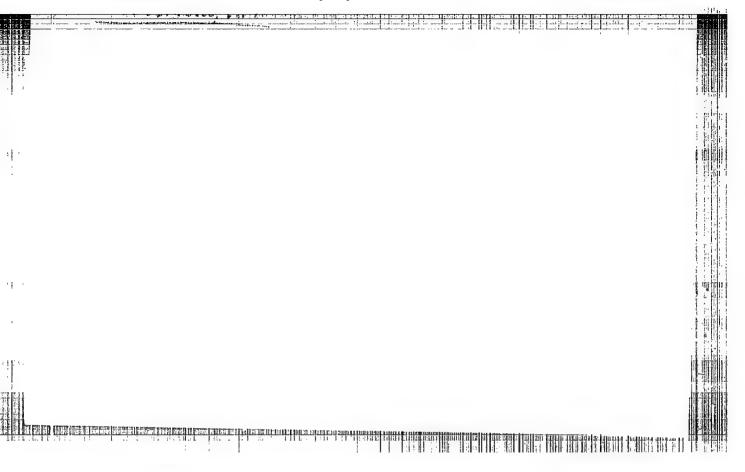
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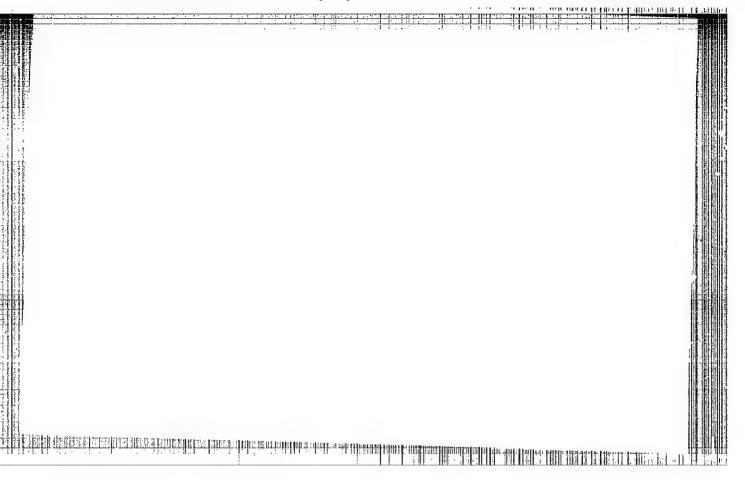
Khimicheskiy institut im. A. M. Butlerova Kazanskogo gosudarstvennogo universiteta im. V. I. Ul'yanova-Lenina (Chemical Institute imeni A. M. Butlerov, Kazan' State University imeni V. I. Ul'yanov-Lenin)

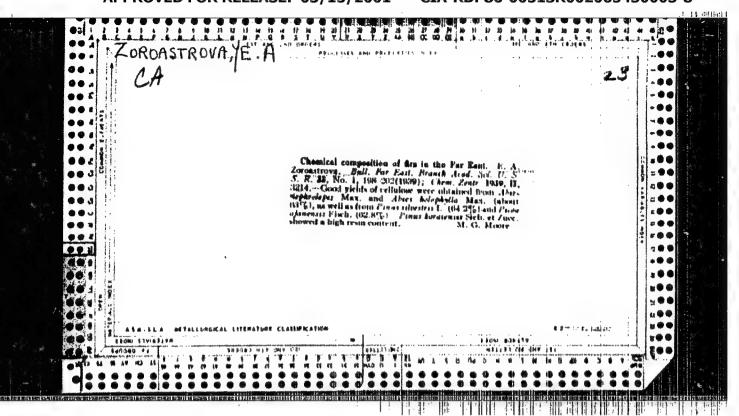
SUBMITTED:

March 21, 1957

Card 3/3







GROMAKOV, S.D.; ZOROATSKAYA, I.V.; LATYPOV, Z.M.; CHYALA, M.A.; EYDEL'MAN, Ye.A.; BADYGINA, L.I.; ZARIPOVA, L.G.

Method of studying the phase diagrams of semiconductor systems. Zhur, neorg, khim, 9 no.10:2485+2487 0 164.

(MIRA 17:12)

..... हे र मध्य देखाम महामध्य कर्मातामक स्ट्रीय र क्रिस्टीम

5(2,4) AUTHORS:

Berg, L. G., Gromakov, S. D.,

SOY/20-125-1-19/67

Zoroatskaya, I. V.

TITLE:

Accelerated Method for the Investigation of Phase Diagrams According to the Thermographic Method (Uskorennyy metod izucheniya diagramm sostoyaniya metodon termografii)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 1, pp 75-78

ABSTRACT:

The authors suggest a simultaneous recording of thermographic data for 2, in some cases even 3 substances investigated. The thermal effects which take place in 2 namples were recorded clearly and separately on the differential curve even if they take place at almost the same temperatures. Thus, the investigation can be carried out twice as rapidly as in the normal case. This method, however, also has certain deficiencies: the main deficiency may be eliminated by the calibration of the differential thermocouple. This deficiency is due to the fact that heating in both samples takes place at a small temperature difference as far as the thermal properties of these samples are different. The suggested method was checked on the binary system KCl-SrCl₂ (Ref ?).

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Accelerated Method for the Investigation of Phase Diagrams According to the Thermographic Method

301/20-125-1-19/67

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Its phase diagram is relatively complicated and therefore well suited for testing the utility of the new method (Fig 1). Some conclusions on the mechanism of the chemical interaction between the substances can be drawn from a comparison of the two heating curves. The authors here use only a few examples from the results obtained. They discuss the shape of the differential curves (Figs 2, 3). The complicated shape of the curve (d, e, f) indicates that the effect conserned (575°) takes place in both samples. Actually, it should take place only in sample 2, then it would be expressed by a simple "endothermal line" which passes through point de and f. If this effect is observed as an exothermic phenomenon also in sample 1 a complicated shape of the cooling curves results due to the combination. The mentioned example of an indefinite interpretation of the thermographic data is no fundamental difficulty in the accelerated method of the thermographic investigations suggested by the authors. The easiest nethod of removing these deficiencics is a repeated investigation of individual compounds

Card 2/3

Accelerated Method for the Investigation of

SOV/20-125-1-19/67

Phase Dingrams According to the Thermographic Method

which are combined with a sample of another composition or by recording only one sample. There are 3 figures and

2 Soviet references.

ASSOCIATION: Kazanskiy gosudarstvennyy universitet im. V. I. Ul'yanova-Lenina

(Kazan' State University imeni V. I. Ul'yanov-Lenin)

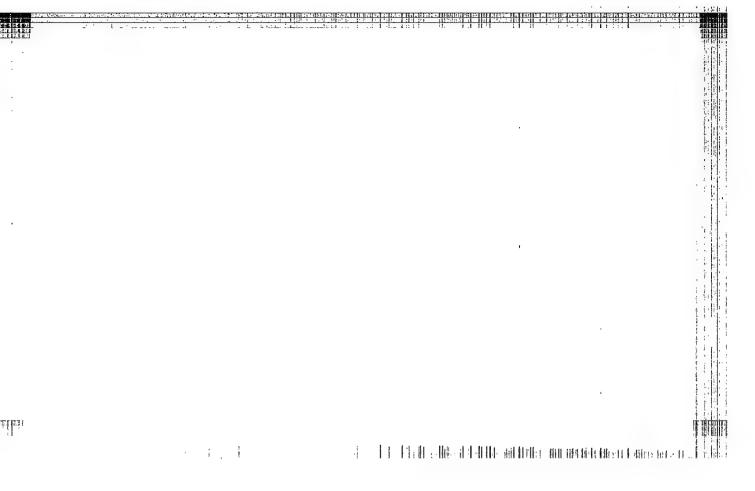
PRESENTED:

October 25, 1958, by I. I. Chernyayev, Academician

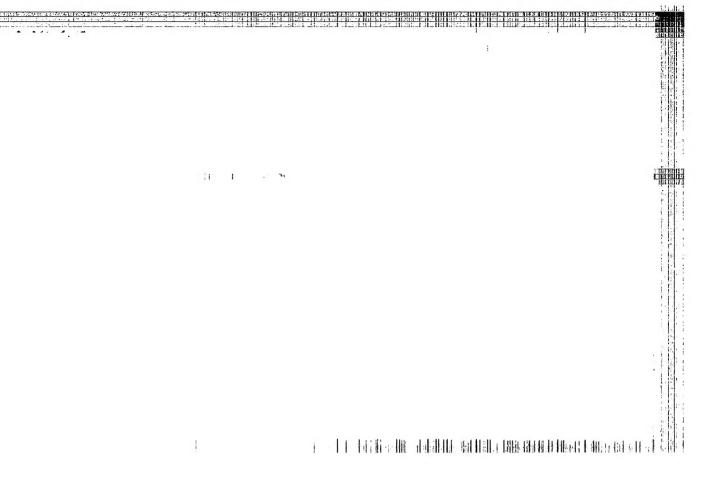
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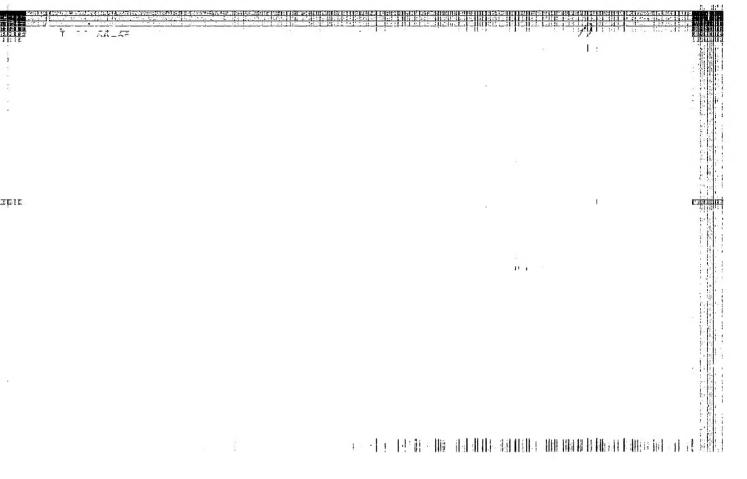
March 10, 1958

Card 3/3









EERG, L.G.; GROMAKOV, S.D.; ZOROATSKAYA, I.V.; AVERKO—ANTONOVICH, I.N.

[Methods for selecting coefficients in chemical equations] Sposoby podbora koeffitsientov v khimicheskikh uravneniiakh. Kazan', Izdvo Kazanskogo univ., 1959. 147 p. (MIRA 14:10)

(Chemical equations)

BERG, L.G.; GHOMAKOV, S.D.; ZOROATSKAYA, I.V.

Faster thermographic method for investigating structural diagrams. Dokl.AM SSSR 125 no.1:75-78 Mr-Ap '59.

(MERA 12:4)

1. Kazanskiy gosudarstvennyy universitet imeni V.I.Ul'yanova-Lenina. Predstavleno akademikon I.I.Chernyayevym.

(Phase rule and equilibrium) (Thermochemistry)